TARTS™
Sensors for Makers™

HUMIDITY

Tarts Wireless Humidity Sensor

General Description

Tarts wireless humidity (RH) sensor allows you to accurately monitor the relative humidity of the air within a room or enclosure.

Features

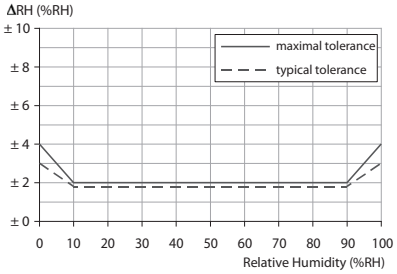
- +/- 1.8% accuracy (between 10% - 90% RH).
- Scientific grade sensor.

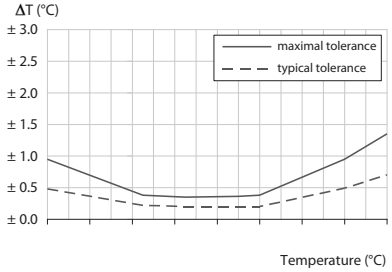
Principle of Operation

The Tarts wireless humidity (RH) sensor measures the relative humidity at the device. The sensor detects RH and temperature values and transmits the information wirelessly to the gateway (Arduino shield, Raspberry Pi plate or BeagleBone Black cape).

Technical Specifications	
Datum Definition	Type: 43 Name: RH, TEMPERATURE RawValue: 3434 (RH), 2732 (Temperature) FormattedValue: 34.34 % (RH), 27.32 C (Temperature)
Supply Voltage	2.0 - 3.6 VDC * (ships with CR2032 - 3.0 V coin cell battery and battery clip)
Current Consumption	0.7 µA (sleep mode) 2 mA (radio idle/off mode) 2 mA (measurement mode) 25 mA (radio RX mode) 35 mA (radio TX mode)
Electronics Operating Temperature Range	-40°C to +85°C (-40°F to +185°F) **
Available Operating Frequencies	900 MHz (25 Channels), 868 MHz (5 Channels) and 433 MHz (15 Channels)
Accuracy	± 1.8% under normal conditions (10% - 90% RH)
RH Operating Range	0 – 100% RH
RH Response Time	8 sec (tau 63%)
Antenna	4” wire antenna
Device Range	250 - 300 ft. non-line-of-sight (actual range may vary depending on environment.)
Dimensions	1 inch (W) x 1 inch (L)
Certifications	FC CE Industry Canada 900 MHz product; FCC ID: ZTL- RFSC1 and IC: 9794A-RFSC1. 868 and 433 MHz product tested and found to comply with: CISPR 22:2008-09 / EN 55022:2010 - Class B and ETSI EN 300 220-2 V2.4.1 (2012-05).

* Hardware cannot withstand negative voltage. Please take care when connecting a power device.
** At temperatures above 100°C, it is possible to lose programmed memory.





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